

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 55-065176

(43)Date of publication of application : 16.05.1980

(51)Int.Cl.

G01T 1/20  
H01L 31/00

(21)Application number : 53-138889

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(22)Date of filing : 13.11.1978

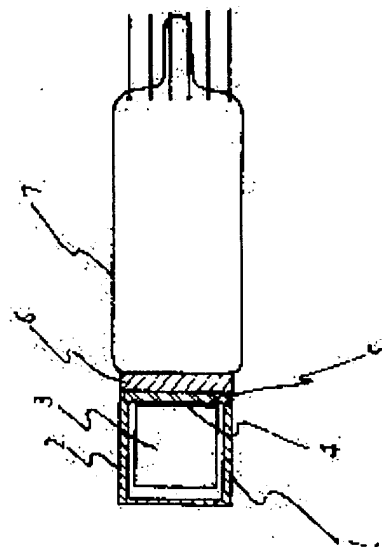
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## (54) RADIANT RAY DETECTOR

## (57)Abstract:

PURPOSE: To improve the response of crystal scintillation, by selectively detecting only fluorescence and using the means sufficiently reducing the sensitivity of detection apparent to phosphorescence optically, to reduce the effect of residual light.

CONSTITUTION: The cut filter 6 is inserted between the scintillator 1 consisting of the aluminum case 2, crystal 3, adhesives 4, and glass window 5, and the photo detector 7 such as photo electron multiplier. As the cut filter 6, the dichroic miller having greater transmission rate at fluorescence discharge region and smaller transmission rate for phosphorescence discharge region and of which thin film layers are 11W25, is used. Thus, the effect of residual light can be reduced to about  $1/2W1/4$  in case of NaI(Tl), and the constitution of the detector can further be simplified by using the dichroic miller itself as the glass window 5.



## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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